#3

SEQUENCE LISTING

<110> Richards, Julia

Rozsa, Frank

<120> Detecting and Treating Eye Disease

<130> UM-06105

<140> 09/844,653

<141> 2001-04-27

<160> 173

<170> PatentIn version 3.0

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<220>

<221>  SITE

<222>  (272)..(272)

<223>  Xaa at this position can be any amino acid.
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Leu Arg His Ala Glu Arg Ser Pro Gly Gly Ala Leu Pro Pro Arg His
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Leu Leu Gln Gln Pro Ala Ala Glu Arg Thr Ala Ala His Arg Gly Gln
    50   55   60

Gly Pro Arg Gly Ala Thr Arg Gly Val Arg Gly Pro Gly Ala Gln Gly
65   70   75   80

Ala Gln Ile Ala Ala Gln Ala Phe Ser Arg Ala Pro Ile Pro Met Ala
                85   90   95

Val Val Arg Arg Glu Leu Ser Cys Glu Ser Tyr Pro Ile Glu Leu Arg
            100   105   110

Cys Pro Gly Thr Asp Val Ile Met Ile Glu Ser Ala Asn Tyr Gly Arg
            115   120   125

Thr Asp Asp Lys Ile Cys Asp Ser Asp Pro Ala Gln Met Glu Asn Ile
    130   135   140

Arg Cys Tyr Leu Pro Asp Ala Tyr Lys Ile Met Ser Gln Arg Cys Asn
145   150   155   160

Asn Arg Thr Gln Cys Ala Val Val Ala Gly Pro Asp Val Phe Pro Asp
                165   170   175

Pro Cys Pro Gly Thr Tyr Lys Tyr Leu Glu Val Gln Tyr Glu Cys Val
            180   185   190

Pro Tyr Lys Val Glu Gln Lys Val Phe Leu Cys Pro Gly Leu Leu Lys
        195   200   205

Gly Val Tyr Gln Ser Glu His Leu Phe Glu Ser Asp His Gln Ser Gly
210   215   220

Ala Trp Cys Lys Asp Pro Leu Gln Ala Ser Asp Lys Ile Tyr Tyr Met
225   230   235   240

Pro Trp Thr Pro Tyr Arg Thr Asp Thr Leu Thr Glu Tyr Ser Ser Lys
                245   250   255

Asp Asp Phe Ile Ala Gly Arg Pro Thr Thr Thr Tyr Lys Leu Pro Xaa
            260   265   270

Arg Val Asp Gly Thr Gly Phe Val Val Tyr Asp Gly Ala Leu Phe Phe
        275   280   285

Asn Lys Glu Arg Thr Arg Asn Ile Val Lys Phe Asp Leu Arg Thr Arg
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Ile Lys Ser Gly Glu Ala Ile Ile Ala Asn Ala Asn Tyr His Asp Thr
305   310   315   320

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            355             360             365

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    370             375             380

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Glu Ala Thr Gly Asn Lys Ile Asp Tyr Ile Tyr Asn Thr Asp Gln Ser
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Lys Asp Ser Leu Val Asp Val Pro Phe Pro Asn Ser Tyr Gln Tyr Ile
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465             470             475             480

Ile His Leu Asp Ser Glu Leu Glu Arg Pro Ser Val Lys Asp Ile Ser
            485             490             495

Thr Thr Gly Pro Leu Gly Met Gly Ser Thr Thr Thr Ser Thr Thr Leu
            500             505             510

Arg Thr Thr Thr Leu Ser Pro Gly Arg Ser Thr Thr Pro Ser Val Ser
    515             520             525

Gly Arg Arg Asn Arg Ser Thr Ser Thr Pro Ser Pro Ala Val Glu Val
    530             535             540

Leu Asp Asp Met Thr Thr His Leu Pro Ser Ala Ser Ser Gln Ile Pro
545             550             555             560

Ala Leu Glu Glu Ser Cys Glu Ala Val Glu Ala Arg Glu Ile Met Trp
            565             570             575

Phe Lys Thr Arg Gln Gly Gln Ile Ala Lys Gln Pro Cys Pro Ala Gly
            580             585             590

Thr Ile Gly Val Ser Thr Tyr Leu Cys Leu Ala Pro Asp Gly Ile Trp
            595             600             605

Asp Pro Gln Gly Pro Asp Leu Ser Asn Cys Ser Ser Pro Trp Val Asn
    610             615             620

His Ile Thr Gln Lys Leu Lys Ser Gly Glu Thr Ala Ala Asn Ile Ala
625             630             635             640

Arg Glu Leu Ala Glu Gln Thr Arg Asn His Leu Asn Ala Gly Asp Ile
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Ala Met Val Glu Thr Val Asn Asn Leu Leu Gln Pro Gln Ala Leu Asn
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Ala Trp Arg Asp Leu Thr Thr Ser Asp Gln Leu Arg Ala Ala Thr Met
                725   730   735

Leu Leu His Thr Val Glu Glu Ser Ala Phe Val Leu Ala Asp Asn Leu
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Leu Lys Thr Asp Ile Val Arg Glu Asn Thr Asp Asn Ile Lys Leu Glu
            755   760   765

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Glu Asn Met Gly His Gly Ser Thr Ile Gln Leu Ser Ala Asn Thr Leu
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Val Ile Thr Ala Ala Ile Asn Lys Glu Phe Ser Asn Lys Val Tyr Leu
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Leu Ile Cys Ile Phe Thr Phe Cys Phe Phe Arg Gly Leu Gln Ser Asp
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Val Asp Tyr Arg Ser Tyr Gly Thr Asp Lys Val Cys Trp Leu Arg
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Leu Asp Thr Tyr Phe Ile Trp Ser Phe Ile Gly Pro Ala Thr Leu
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Met Phe His His Thr Ala Ile Leu Lys Pro Glu Ser Gly Cys Leu
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Asp Asn Ile Asn Tyr Glu Asp Asn Arg Pro Phe Ile Lys Ser Trp
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Val Ile Gly Ala Ile Ala Leu Leu Cys Leu Leu Gly Leu Thr Trp
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Ala Phe Gly Leu Met Tyr Ile Asn Glu Ser Thr Val Ile Met Ala
    1160   1165   1170

Tyr Leu Phe Thr Ile Phe Asn Ser Leu Gln Gly Met Phe Ile Phe
    1175   1180   1185

Ile Phe His Cys Val Leu Gln Lys Lys Val Arg Lys Glu Tyr Gly
    1190   1195   1200

Lys Cys Leu Arg Thr His Cys Cys Ser Gly Lys Ser Thr Glu Ser
    1205   1210   1215

Ser Ile Gly Ser Gly Lys Thr Ser Gly Ser Arg Thr Pro Gly Arg
    1220   1225   1230

Tyr Ser Thr Gly Ser Gln Ser Arg Ile Arg Arg Met Trp Asn Asp
    1235   1240   1245

Thr Val Arg Lys Gln Ser Glu Ser Ser Phe Ile Thr Gly Asp Ile
    1250   1255   1260

Asn Ser Ser Ala Ser Leu Asn Arg Glu Gly Leu Leu Asn Asn Ala
    1265   1270   1275

Arg Asp Thr Ser Val Met Asp Thr Leu Pro Leu Asn Gly Asn His
    1280   1285   1290

Gly Asn Ser Tyr Ser Ile Ala Ser Gly Glu Tyr Leu Ser Asn Cys
    1295   1300   1305

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Val Gln  Ile Ile Asp Arg Gly  Tyr Asn His Asn Glu  Thr Ala Leu
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Glu Lys  Lys Ile Leu Lys Glu  Leu Thr Ser Asn Tyr  Ile Pro Ser
    1325             1330                 1335

Tyr Leu  Asn Asn His Glu Arg  Ser Ser Glu Gln Asn  Arg Asn Leu
    1340             1345                 1350

Met Asn  Lys Leu Val Asn Asn  Leu Gly Ser Gly Arg  Glu Asp Asp
    1355             1360                 1365

Ala Ile  Val Leu Asp Asp Ala  Thr Ser Phe Asn His  Glu Glu Ser
    1370             1375                 1380

Leu Gly  Leu Glu Leu Ile His  Glu Glu Ser Asp Ala  Pro Leu Leu
    1385             1390                 1395

Pro Pro  Arg Val Tyr Ser Thr  Glu Asn His Gln Pro  His His Tyr
    1400             1405                 1410

Thr Arg  Arg Arg Ile Pro Gln  Asp His Ser Glu Ser  Phe Phe Pro
    1415             1420                 1425

Leu Leu  Thr Asn Glu His Thr  Glu Asp Leu Gln Ser  Pro His Arg
    1430             1435                 1440

Asp Ser  Leu Tyr Thr Ser Met  Pro Thr Leu Ala Gly  Val Ala Ala
    1445             1450                 1455

Thr Glu  Ser Val Thr Thr Ser  Thr Gln Thr Glu Pro  Pro Pro Ala
    1460             1465                 1470

Lys Cys  Gly Asp Ala Glu Asp  Val Tyr Tyr Lys Ser  Met Pro Asn
    1475             1480                 1485

Leu Gly  Ser Arg Asn His Val  His Gln Leu His Thr  Tyr Tyr Gln
    1490             1495                 1500

Leu Gly  Arg Gly Ser Ser Asp  Gly Phe Ile Val Pro  Pro Asn Lys
    1505             1510                 1515

Asp Gly  Thr Pro Pro Glu Gly  Ser Ser Lys Gly Pro  Ala His Leu
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Val Thr  Ser Leu
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<213>  Homo sapiens
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Ile His Ala Phe Ser Arg Ala Pro Ile Pro Met Ala Val Val Arg Arg
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Glu Leu Ser Cys Glu Ser Tyr Pro Ile Glu Leu Arg Cys Pro Gly Thr
            35                40                45

Asp Val Ile Met Ile Glu Ser Ala Asn Tyr Gly Arg Thr Asp Asp Lys
        50                55                60

Ile Cys Asp Ser Asp Pro Ala Gln Met Glu Asn Ile Arg Cys Tyr Leu
65                70                75                80

Pro Asp Ala Tyr Lys Ile Met Ser Gln Arg Cys Asn Asn Arg Thr Gln
                85                90                95

Cys Ala Val Val Ala Gly Pro Asp Val Phe Pro Asp Pro Cys Pro Gly
            100                105                110

Thr Tyr Lys Tyr Leu Glu Val Gln Tyr Glu Cys Val Pro Tyr Lys Val
            115                120                125

Glu Gln Lys Val Phe Leu Cys Pro Gly Leu Leu Lys Gly Val Tyr Gln
    130                135                140

Ser Glu His Leu Phe Glu Ser Asp His Gln Ser Gly Ala Trp Cys Lys
145                150                155                160

Asp Pro Leu Gln Ala Ser Asp Lys Ile Tyr Tyr Met Pro Trp Thr Pro
                165                170                175

Tyr Arg Thr Asp Thr Leu Thr Glu Tyr Ser Ser Lys Asp Asp Phe Ile
            180                185                190

Ala Gly Arg Pro Thr Thr Thr Tyr Lys Leu Pro His Arg Val Asp Gly
            195                200                205

Thr Gly Phe Val Val Tyr Asp Gly Ala Leu Phe Phe Asn Lys Glu Arg
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Thr Arg Asn Ile Val Lys Phe Asp Leu Arg Thr Arg Ile Lys Ser Gly
225                230                235                240

Glu Ala Ile Ile Ala Asn Ala Asn Tyr His Asp Thr Ser Pro Tyr Arg
                245                250                255

Trp Gly Gly Lys Ser Asp Ile Asp Leu Ala Val Asp Glu Asn Gly Leu
            260                265                270

Trp Val Ile Tyr Ala Thr Glu Gln Asn Asn Gly Lys Ile Val Ile Ser
    275                280                285

Gln Leu Asn Pro Tyr Thr Leu Arg Ile Glu Gly Thr Trp Asp Thr Ala
    290                295                300

Tyr Asp Lys Arg Ser Ala Ser Asn Ala Phe Met Ile Cys Gly Ile Leu
305                310                315                320
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Tyr Val Val Lys Ser Val Tyr Glu Asp Asp Asp Asn Glu Ala Thr Gly
             325                 330                 335

Asn Lys Ile Asp Tyr Ile Tyr Asn Thr Asp Gln Ser Lys Asp Ser Leu
             340                 345                 350

Val Asp Val Pro Phe Pro Asn Ser Tyr Gln Tyr Ile Ala Ala Val Asp
             355                 360                 365

Tyr Asn Pro Arg Asp Asn Leu Leu Tyr Val Trp Asn Asn Tyr His Val
             370             375             380

Val Lys Tyr Ser Leu Asp Phe Gly Pro Leu Asp Ser Arg Ser Gly Gln
385             390                 395                 400

Ala His His Gly Gln Val Ser Tyr Ile Ser Pro Pro Ile His Leu Asp
             405                 410                 415

Ser Glu Leu Glu Arg Pro Ser Val Lys Asp Ile Ser Thr Thr Gly Pro
             420                 425                 430

Leu Gly Met Gly Ser Thr Thr Thr Ser Thr Thr Leu Arg Thr Thr Thr
             435                 440                 445

Leu Ser Pro Gly Arg Ser Thr Thr Pro Ser Val Ser Gly Arg Arg Asn
    450                 455                 460

Arg Ser Thr Ser Thr Pro Ser Pro Ala Val Glu Val Leu Asp Asp Met
465                 470                 475                 480

Thr Thr His Leu Pro Ser Ala Ser Ser Gln Ile Pro Ala Leu Glu Glu
             485                 490                 495

Ser Cys Glu Ala Val Glu Ala Arg Glu Ile Met Trp Phe Lys Thr Arg
             500                 505                 510

Gln Gly Gln Ile Ala Lys Gln Pro Cys Pro Ala Gly Thr Ile Gly Val
             515                 520                 525

Ser Thr Tyr Leu Cys Leu Ala Pro Asp Gly Ile Trp Asp Pro Gln Gly
    530                 535                 540

Pro Asp Leu Ser Asn Cys Ser Ser Pro Trp Val Asn His Ile Thr Gln
545                 550                 555                 560

Lys Leu Lys Ser Gly Glu Thr Ala Ala Asn Ile Ala Arg Glu Leu Ala
             565                 570                 575

Glu Gln Thr Arg Asn His Leu Asn Ala Gly Asp Ile Thr Tyr Ser Val
             580                 585                 590

Arg Ala Met Asp Gln Leu Val Gly Leu Leu Asp Val Gln Leu Arg Asn
    595                 600                 605

Leu Thr Pro Gly Gly Lys Asp Ser Ala Ala Arg Ser Leu Asn Lys Leu
    610                 615                 620

Gln Lys Arg Glu Arg Ser Cys Arg Ala Tyr Val Gln Ala Met Val Glu
625                 630                 635                 640

Thr Val Asn Asn Leu Leu Gln Pro Gln Ala Leu Asn Ala Trp Arg Asp
             645                 650                 655
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Leu Thr Thr Ser Asp Gln Leu Arg Ala Ala Thr Met Leu Leu His Thr
        660   665   670

Val Glu Glu Ser Ala Phe Val Leu Ala Asp Asn Leu Leu Lys Thr Asp
        675   680   685

Ile Val Arg Glu Asn Thr Asp Asn Ile Lys Leu Glu Val Ala Arg Leu
    690   695   700

Ser Thr Glu Gly Asn Leu Glu Asp Leu Lys Phe Pro Glu Asn Met Gly
705   710   715   720

His Gly Ser Thr Ile Gln Leu Ser Ala Asn Thr Leu Lys Gln Asn Gly
            725   730   735

Arg Asn Gly Glu Ile Arg Val Ala Phe Val Leu Tyr Asn Asn Leu Gly
        740   745   750

Pro Tyr Leu Ser Thr Glu Asn Ala Ser Met Lys Leu Gly Thr Glu Ala
        755   760   765

Leu Ser Thr Asn His Ser Val Ile Val Asn Ser Pro Val Ile Thr Ala
    770   775   780

Ala Ile Asn Lys Glu Phe Ser Asn Lys Val Tyr Leu Ala Asp Pro Val
785   790   795   800

Val Phe Thr Val Lys His Ile Lys Gln Ser Glu Glu Asn Phe Asn Pro
            805   810   815

Asn Cys Ser Phe Trp Ser Tyr Ser Lys Arg Thr Met Thr Gly Tyr Trp
        820   825   830

Ser Thr Gln Gly Cys Arg Leu Leu Thr Thr Asn Lys Thr His Thr Thr
        835   840   845

Cys Ser Cys Asn His Leu Thr Asn Phe Ala Val Leu Met Ala His Val
    850   855   860

Glu Val Lys His Ser Asp Ala Val His Asp Leu Leu Leu Asp Val Ile
865   870   875   880

Thr Trp Val Gly Ile Leu Leu Ser Leu Val Cys Leu Leu Ile Cys Ile
            885   890   895

Phe Thr Phe Cys Phe Phe Arg Gly Leu Gln Ser Asp Arg Asn Thr Ile
        900   905   910

His Lys Asn Leu Cys Ile Ser Leu Phe Val Ala Glu Leu Leu Phe Leu
        915   920   925

Ile Gly Ile Asn Arg Thr Asp Gln Pro Ile Ala Cys Ala Val Phe Ala
    930   935   940

Ala Leu Leu His Phe Phe Phe Leu Ala Ala Phe Thr Trp Met Phe Leu
945   950   955   960

Glu Gly Val Gln Leu Tyr Ile Met Leu Val Glu Val Phe Glu Ser Glu
            965   970   975

His Ser Arg Arg Lys Tyr Phe Tyr Leu Val Gly Tyr Gly Met Pro Ala
        980   985   990

- 113 -

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Leu Ile Val Ala Val Ser Ala Ala  Val Asp Tyr Arg Ser  Tyr Gly Thr
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Asp Lys  Val Cys Trp Leu Arg  Leu Asp Thr Tyr Phe  Ile Trp Ser
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Phe Ile  Gly Pro Ala Thr Leu  Ile Ile Met Leu Asn  Val Ile Phe
    1025                 1030                 1035

Leu Gly  Ile Ala Leu Tyr Lys  Met Phe His His Thr  Ala Ile Leu
    1040                 1045                 1050

Lys Pro  Glu Ser Gly Cys Leu  Asp Asn Ile Asn Tyr  Glu Asp Asn
    1055                 1060                 1065

Arg Pro  Phe Ile Lys Ser Trp  Val Ile Gly Ala Ile  Ala Leu Leu
    1070                 1075                 1080

Cys Leu  Leu Gly Leu Thr Trp  Ala Phe Gly Leu Met  Tyr Ile Asn
    1085                 1090                 1095

Glu Ser  Thr Val Ile Met Ala  Tyr Leu Phe Thr Ile  Phe Asn Ser
    1100                 1105                 1110

Leu Gln  Gly Met Phe Ile Phe  Ile Phe His Cys Val  Leu Gln Lys
    1115                 1120                 1125

Lys Val  Arg Lys Glu Tyr Gly  Lys Cys Leu Arg Thr  His Cys Cys
    1130                 1135                 1140

Ser Gly  Lys Ser Thr Glu Ser  Ser Ile Gly Ser Gly  Lys Thr Ser
    1145                 1150                 1155

Gly Ser  Arg Thr Pro Gly Arg  Tyr Ser Thr Gly Ser  Gln Ser Arg
    1160                 1165                 1170

Ile Arg  Arg Met Trp Asn Asp  Thr Val Arg Lys Gln  Ser Glu Ser
    1175                 1180                 1185

Ser Phe  Ile Thr Gly Asp Ile  Asn Ser Ser Ala Ser  Leu Asn Arg
    1190                 1195                 1200

Glu Pro  Tyr Arg Glu Thr Ser  Met Gly Val Lys Leu  Asn Ile Ala
    1205                 1210                 1215

Tyr Gln  Ile Gly Ala Ser Glu  Gln Cys Gln Gly Tyr  Lys Cys His
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Gly Tyr  Ser Thr Thr Glu Trp
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- 330 -

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Arg Thr Ala Gln Leu Arg Lys Ala Asn Asp Gln Ser Gly Arg Cys Gln
            35   40   45

Tyr Thr Phe Ser Val Ala Ser Pro Asn Glu Ser Ser Cys Pro Glu Gln
    50   55   60

Ser Gln Ala Met Ser Val Ile His Asn Leu Gln Arg Asp Ser Ser Thr
65   70   75   80

Gln Arg Leu Asp Leu Glu Ala Thr Lys Ala Arg Leu Ser Ser Leu Glu
            85   90   95

Ser Leu Leu His Gln Leu Thr Leu Asp Gln Ala Ala Arg Pro Gln Glu
            100   105   110

Thr Gln Glu Gly Leu Gln Arg Glu Leu Gly Thr Leu Arg Arg Glu Arg
            115   120   125

Asp Gln Leu Glu Thr Gln Thr Arg Glu Leu Glu Thr Ala Tyr Ser Asn
    130   135   140

Leu Leu Arg Asp Lys Ser Val Leu Glu Glu Glu Lys Lys Arg Leu Arg
145   150   155   160

Gln Glu Asn Glu Asn Leu Ala Arg Arg Leu Glu Ser Ser Ser Gln Glu
            165   170   175

Val Ala Arg Leu Arg Arg Gly Gln Cys Pro Gln Thr Arg Asp Thr Ala
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Arg Ala Val Pro Pro Gly Ser Arg Glu Val Ser Thr Trp Asn Leu Asp
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Thr Leu Ala Phe Gln Glu Leu Lys Ser Glu Leu Thr Glu Val Pro Ala
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